TRASCO 100 12-78 MC 8878•

LEGEND

B.O.D.	Biochemical Oxygen Demand
DO	Dissolved Oxygen
COD	Chemical Oxygen Demand
MLVSS	Mixed Liquors Volatile Suspended Solids
F/M	Food/Microorganism
MCRT	Mean Cell Retention Times
RAS	Return Activated Sludge
WAS	Waste Activated Sludge
SI	Solids Inventory
SVI	Sludge Volume Index (300)
SS	Suspended Solids
VSS	Volatile Suspended Solids
A	Air
Ph	Ph
Q	Flow
Temp	Degree C
SCFM	Standard Cubic Feet Per Minute
DT	Hours Detention Time
SOFR	Surface Over Flow Rate
SLR	Solids Loading Rate
SWD	Side Water Depth
Cl	Chlorine
Cu Ft	Cubic Foot
Oxy	Oxygen
Gal	Gallon
MGD	Million Gallons Per Day
EP	Effluent Pump
RCS	REcirculated Sludge
Comn	Comminutor
Ind	Industrial
Sa	Sanitary
PF	Parshall Flume
GR	Grit Removal
RS	Raw Sludge
LF	Loading Factor
ADWF	Average Dry Weather flow
AWWF	Average Wet Weather Flow
AYF	Average Yearly Flow
PDF	Peak Daily Flow
POWTP	Public Owned Wastewater Treatmnent Plant

CITY OF HARRIMAN WASTE WATER FLOW 1983

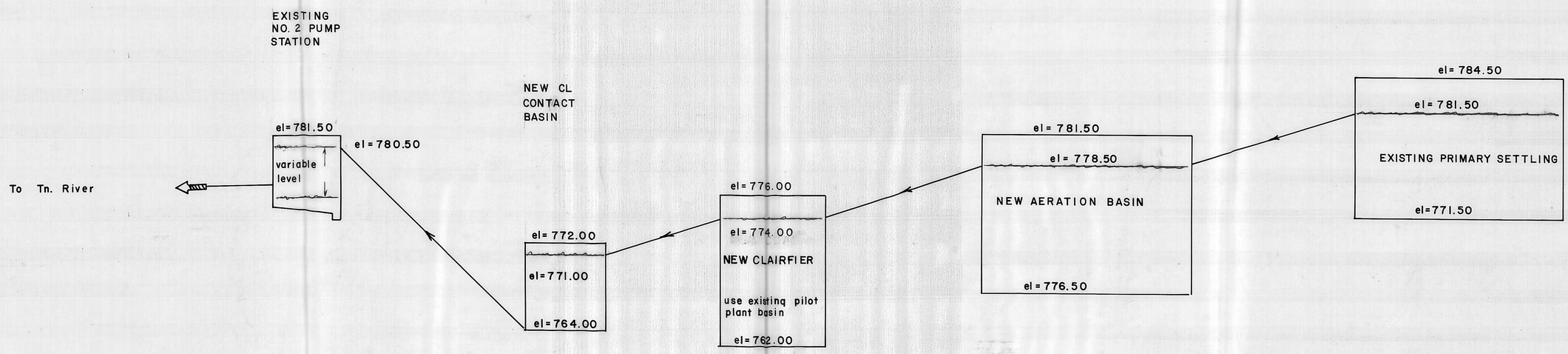
Average Dry Weather Flow (ADWF)	.6 MGD
Average Yearly Flow (AYF)	.9 MGD
Average Wet Weather Flow (AWWF)	1.2 MGD
Peak Daily Flow (PDF)	2.4 MGD
Peak Hourly Flow (PHF)	2.6 MGD

CITY OF HARRIMAN WASTE WATER LOADING 1983

	Primary Influent	Primary Effluent
Average Day BODs	1351 lbs/ day	876 lbs/day
Maximum Day BODs	3603 " "	2422 " "
Average Day TSS	1336 " "	796 " "
Maximum Day TSS	3563 " "	2122 " "

Type of Treatment Complete mix activated sludge
Design Loading 0.022 lb BODs/lb MLVSS under aeration
Concentration (MLSS) 3000
MLVSS 85% of MLSS

Volume Basin 60319 Cu Ft .52389 M.G.
Detention Time at ADWF 20.95 hours
Detention Time at AWWF 10.42 hours
Detention Time at PDF 5.24 hours



HARRIMAN UTILITY BOARD
HARRIMAN, TENNESSEE

SCALE:	APPROVED BY:	DRAWN BY: R. Hall
DATE: 8-30-84		

SECONDARY TREATMENT ADDITION TO SANITARY FACILITY

PROFILE — DRAWING NUMBER S-177-D